

SEQUENCE LISTING

<110> Gao, Zeren

<120> Murine Cytokine Receptor

<130> 00-46

<160> 8

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 2256

<212> DNA

<213> mouse

<220>

<221> CDS

<222> (197) ... (2218)

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Lys Thr Asp	Cys Ala Leu	Arg Val Arg	Val Val Val	His Leu Ala	Val	
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His Gly His	Trp Ala Glu	Pro Glu Glu	Ala Gly Lys	Ser Asp Ser	Glu	
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Leu Gln Glu	Ser Arg Asn	Ala Ser Leu	Gln Ala Gln	Val Val Leu	Ser	
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340 345 350
Ala Cys Ser Trp Ala Asp Ser Leu Gly Pro Phe Lys Asp Asp Met Leu
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Leu Val Glu Met Lys Thr Gly Leu Asn Asn Thr Ser Val Cys Ala Leu
370 375 380
Glu Pro Ser Gly Cys Thr Pro Leu Pro Ser Met Ala Ser Thr Arg Ala
385 390 395 400
Ala Arg Leu Gly Glu Glu Leu Leu Gln Asp Phe Arg Ser His Gln Cys
405 410 415
Met Gln Leu Trp Asn Asp Asp Asn Met Gly Ser Leu Trp Ala Cys Pro
420 425 430
Met Asp Lys Tyr Ile His Arg Arg Trp Val Leu Val Trp Leu Ala Cys
435 440 445
Leu Leu Ser Ala Ala Ala Leu Phe Phe Phe Leu Leu Lys Lys Asp
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Arg Arg Lys Ala Ala Arg Gly Ser Arg Thr Ala Leu Leu His Ser
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Ala Asp Gly Ala Gly Tyr Glu Arg Leu Val Gly Ala Leu Ala Ser Ala
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<210> 3
<211> 2022
<212> DNA
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<221> misc_feature
<222> (1)...(2022)
<223> n = A,T,C or G

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<211> 2328

<212> DNA

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<220>

<221> CDS

<222> (197) ... (2290)

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att	cag	gtg	tgg	tgc	cta	gag	cca	gac	tct	gag	agg	gtc	gaa	ttc	tgc	1048	
Ile	Gln	Val 270	Trp	Ser	Leu	Glu 275	Pro	Asp	Ser	Glu	Arg 280	Val	Glu	Phe	Cys		
ccc	ttc	cgg	gaa	gat	ccc	ggt	gca	cac	agg	aac	ctc	tgg	cac	ata	gcc	1096	

Pro Phe Arg Glu Asp Pro Gly Ala His Arg Asn Leu Trp His Ile Ala	
285 290 295 300	
agg ctg cgg gta ctg tcc cca ggg gta tgg cag cta gat gcg cct tgc	1144
Arg Leu Arg Val Leu Ser Pro Gly Val Trp Gln Leu Asp Ala Pro Cys	
305 310 315	
tgt ctg cgg ggc aag gta aca ctg tgc tgg cag gca cca gac cag agt	1192
Cys Leu Pro Gly Lys Val Thr Leu Cys Trp Gln Ala Pro Asp Gln Ser	
320 325 330	
ccc tgc cag cca ctt gtg cca cca gtg ccc cag aag aac gcc act gtg	1240
Pro Cys Gln Pro Leu Val Pro Pro Val Pro Gln Lys Asn Ala Thr Val	
335 340 345	
aat gag cca caa gat ttc cag ttg gtg gca ggc cac ccc aac ctc tgt	1288
Asn Glu Pro Gln Asp Phe Gln Leu Val Ala Gly His Pro Asn Leu Cys	
350 355 360	
gtc cag gtg agc acc tgg gag aag gtt cag ctg caa gcg tgc tgc tgg	1336
Val Gln Val Ser Thr Trp Glu Lys Val Gln Leu Gln Ala Cys Ser Trp	
365 370 375 380	
gct gac tcc ttg ggg ccc ttc aag gat gat atg ctg tta gtg gag atg	1384
Ala Asp Ser Leu Gly Pro Phe Lys Asp Asp Met Leu Leu Val Glu Met	
385 390 395	
aaa acc ggc ctc aac aac aca tca gtc tgt gcc ttg gaa ccc agt ggc	1432
Lys Thr Gly Leu Asn Asn Thr Ser Val Cys Ala Leu Glu Pro Ser Gly	
400 405 410	
tgt aca cca ctg ccc agc atg gcc tcc acg aga gct gct cgc ctg gga	1480
Cys Thr Pro Leu Pro Ser Met Ala Ser Thr Arg Ala Ala Arg Leu Gly	
415 420 425	
gag gag ttg ctg caa gac ttc cga tca cac cag tgt atg cag ctg tgg	1528
Glu Glu Leu Leu Gln Asp Phe Arg Ser His Gln Cys Met Gln Leu Trp	
430 435 440	
aac gat gac aac atg gga tgc cta tgg gcc tgc ccc atg gac aag tac	1576
Asn Asp Asp Asn Met Gly Ser Leu Trp Ala Cys Pro Met Asp Lys Tyr	
445 450 455 460	
atc cac agg cgc tgg gtc cta gta tgg ctg gcc tgc cta ctc ttg gct	1624
Ile His Arg Arg Trp Val Leu Val Trp Leu Ala Cys Leu Leu Leu Ala	
465 470 475	
gcg gcg ctt ttc ttc ctc ctt cta aaa aag gac cgc agg aaa gcg	1672
Ala Ala Leu Phe Phe Phe Leu Leu Leu Lys Lys Asp Arg Arg Lys Ala	
480 485 490	
gcc cgt ggc tcc cgc acg gcc ttg ctc ctc ccc gcc gac gga gcg	1720
Ala Arg Gly Ser Arg Thr Ala Leu Leu Leu His Ser Ala Asp Gly Ala	
495 500 505	
ggc tac gag cgt ctg gtg gga gca ctg gcg tcc gcg ttg agc cag atg	1768
Gly Tyr Glu Arg Leu Val Gly Ala Leu Ala Ser Ala Leu Ser Gln Met	
510 515 520	
cca ctg cgc gtg gcc gtg gac ctg tgg agc cgc cgc gag ctg agc gcg	1816


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Pro Leu Arg Val Ala Val Asp Leu Trp Ser Arg Arg Glu Leu Ser Ala
525          530          535          540

cac gga gcc cta gcc tgg ttc cac cac cag cga cgc cgt atc ctg cag      1864
His Gly Ala Leu Ala Trp Phe His His Gln Arg Arg Arg Ile Leu Gln
          545          550          555

gag ggt ggc gtg gta atc ctt ctc ttc tgg ccc gcg gcc gtg gcg cag      1912
Glu Gly Gly Val Val Ile Leu Leu Phe Ser Pro Ala Ala Val Ala Gln
          560          565          570

tgt cag cag tgg ctg cag ctc cag aca gtg gag ccc ggg ccg cat gac      1960
Cys Gln Gln Trp Leu Gln Leu Gln Thr Val Glu Pro Gly Pro His Asp
          575          580          585

gcc ctc gcc gcc tgg ctc agc tgc gtg cta ccc gat ttc ctg caa ggc      2008
Ala Leu Ala Ala Trp Leu Ser Cys Val Leu Pro Asp Phe Leu Gln Gly
          590          595          600

cgg gcg acc ggc cgc tac gtc ggg gtc tac ttc gac ggg ctg ctg cac      2056
Arg Ala Thr Gly Arg Tyr Val Gly Val Tyr Phe Asp Gly Leu Leu His
605          610          615

cca gac tct gtg ccc tcc ccg ttc cgc gtc gcc ccg ctc ttc tcc ctg      2104
Pro Asp Ser Val Pro Ser Pro Phe Arg Val Ala Pro Leu Phe Ser Leu
          625          630          635

ccc acg cag ctg ccg gct ttc ctg gat gca ctg cag gga ggc tgc tcc      2152
Pro Thr Gln Leu Pro Ala Phe Leu Asp Ala Leu Gln Gly Gly Cys Ser
          640          645          650

act tcc gcg ggg cga ccc gcg gac ccg gtg gaa cga gtg acc cag gcg      2200
Thr Ser Ala Gly Arg Pro Ala Asp Arg Val Glu Arg Val Thr Gln Ala
          655          660          665

ctg ccg tcc gcc ctg gac agc tgt act tct agc tgg gaa gcc cca ggc      2248
Leu Arg Ser Ala Leu Asp Ser Cys Thr Ser Ser Ser Glu Ala Pro Gly
          670          675          680

tgc tgc gag gaa tgg gac ctg gga ccc tgc act aca cta gaa      2290
Cys Cys Glu Glu Trp Asp Leu Gly Pro Cys Thr Thr Leu Glu
          685          690          695

taaaagccga tacagtattc ctaaaaaaaa aaaaaaaaaa      2328

<210> 5
<211> 698
<212> PRT
<213> mouse

<400> 5
Met Pro Val Ser Trp Phe Leu Leu Ser Leu Ala Leu Gly Arg Asn Pro
1          5          10          15
Val Val Val Ser Leu Glu Arg Leu Met Glu Pro Gln Asp Thr Ala Arg
          20          25          30
Cys Ser Leu Gly Leu Ser Cys His Leu Trp Asp Gly Asp Val Leu Cys
          35          40          45
Leu Pro Gly Ser Leu Gln Ser Ala Pro Gly Pro Val Leu Val Pro Thr
          50          55          60
Arg Leu Gln Thr Glu Leu Val Leu Arg Cys Pro Gln Lys Thr Asp Cys
65          70          75          80

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Ala Leu Arg Val Arg Val Val Val His Leu Ala Val His Gly His Trp
 85 90
 Ala Glu Pro Glu Glu Ala Gly Lys Ser Asp Ser Glu Leu Gln Glu Ser
 100 105
 Arg Asn Ala Ser Leu Gln Ala Gln Val Val Leu Ser Phe Gln Ala Tyr
 115 120
 Pro Ile Ala Arg Cys Ala Leu Leu Glu Val Gln Val Pro Ala Asp Leu
 130 135
 Val Gln Pro Gly Gln Ser Val Gly Ser Ala Val Phe Asp Cys Phe Glu
 145 150
 Ala Ser Leu Gly Ala Glu Val Gln Ile Trp Ser Tyr Thr Lys Pro Arg
 165 170
 Tyr Gln Lys Glu Leu Asn Leu Thr Gln Gln Leu Pro Asp Cys Arg Gly
 180 185
 Leu Glu Val Arg Asp Ser Ile Gln Ser Cys Trp Val Leu Pro Trp Leu
 195 200
 Asn Val Ser Thr Asp Gly Asp Asn Val Leu Leu Thr Leu Asp Val Ser
 210 215
 Glu Glu Gln Asp Phe Ser Phe Leu Leu Tyr Leu Arg Pro Val Pro Asp
 225 230
 Ala Leu Lys Ser Leu Trp Tyr Lys Asn Leu Thr Gly Pro Gln Asn Ile
 245 250
 Thr Leu Asn His Thr Asp Leu Val Pro Cys Leu Cys Ile Gln Val Trp
 260 265
 Ser Leu Glu Pro Asp Ser Glu Arg Val Glu Phe Cys Pro Phe Arg Glu
 275 280
 Asp Pro Gly Ala His Arg Asn Leu Trp His Ile Ala Arg Leu Arg Val
 290 295
 Leu Ser Pro Gly Val Trp Gln Leu Asp Ala Pro Cys Cys Leu Pro Gly
 305 310
 Lys Val Thr Leu Cys Trp Gln Ala Pro Asp Gln Ser Pro Cys Gln Pro
 325 330
 Leu Val Pro Pro Val Pro Gln Lys Asn Ala Thr Val Asn Glu Pro Gln
 340 345
 Asp Phe Gln Leu Val Ala Gly His Pro Asn Leu Cys Val Gln Val Ser
 355 360
 Thr Trp Glu Lys Val Gln Leu Gln Ala Cys Ser Trp Ala Asp Ser Leu
 370 375
 Gly Pro Phe Lys Asp Asp Met Leu Leu Val Glu Met Lys Thr Gly Leu
 385 390
 Asn Asn Thr Ser Val Cys Ala Leu Glu Pro Ser Gly Cys Thr Pro Leu
 405 410
 Pro Ser Met Ala Ser Thr Arg Ala Ala Arg Leu Gly Glu Leu Leu
 420 425
 Gln Asp Phe Arg Ser His Gln Cys Met Gln Leu Trp Asn Asp Asp Asn
 435 440
 Met Gly Ser Leu Trp Ala Cys Pro Met Asp Lys Tyr Ile His Arg Arg
 450 455
 Trp Val Leu Val Trp Leu Ala Cys Leu Leu Ala Ala Ala Leu Phe
 465 470
 Phe Phe Leu Leu Lys Lys Asp Arg Arg Lys Ala Ala Arg Gly Ser
 485 490
 Arg Thr Ala Leu Leu His Ser Ala Asp Gly Ala Gly Tyr Glu Arg
 500 505
 Leu Val Gly Ala Leu Ala Ser Ala Leu Ser Gln Met Pro Leu Arg Val
 515 520
 Ala Val Asp Leu Trp Ser Arg Arg Glu Leu Ser Ala His Gly Ala Leu
 530 535
 Ala Trp Phe His His Gln Arg Arg Arg Ile Leu Gln Glu Gly Gly Val
 545 550
 Val Ile Leu Leu Phe Ser Pro Ala Ala Val Ala Gln Cys Gln Gln Trp
 555 560
 565 570 575

atgcongntnw	snatgtgtyt	nytnwsyntn	gcntytngnm	gnaaycngt	nwtngntnwn	120
ytngarmgny	ntatggarcc	ncargayacn	gcnmngtyw	nytnngcny	nwstngyca	160
ytntggggyg	gnagytyntn	ntgytyntcn	ggwnsyntnc	arwngncng	nggncngnt	180
ytntgncnca	cnmgtyntca	racngarynt	gtntnymnt	ygcnccarac	racngaytyg	240
gcnytnmngn	tnmngntgnt	ngntncaynt	gcngntcayg	gncaytyggc	ngarcngar	300
gargongcnr	arwngayws	ngarytyncr	garwngmna	rgcnwngywt	ncargcngar	360
gtngntngnt	snwttycargc	ntaycncath	gcnmngtyg	cnytntynga	rgtncargtn	420
congcnagay	tngtncarcc	nggncarwgn	tgngnwsng	cngntnttga	ytgytytygar	480
gonwsyntng	gngcngargt	ncarathtng	wnttayaena	arcnmngnta	yccaraargar	540
ytnaaytytna	ncncarcaryt	ncocngayty	mgngngntng	argtnmngna	ywsnthcar	600
wntgytggg	tnytnccntg	tytaayagty	wcnacyngay	gngayaagt	nytnyntncc	660
ytngaytytg	snrgargarca	rgaytytywn	tttytyntyt	ayytnccngt	ngntcncgay	720
gcnytnaarw	snynttgta	yaaaraytynt	acngcncoc	araayathac	nytnaaycay	780
acngaytytg	tnccntgytyt	ntgytathcar	gtntggwsny	tngarcnayt	ywsngarmgn	840
gtngarttyt	gyccnttymg	nggarycaycn	ggngcncaym	naaaytyntg	gcayathgcn	900
mgnytnmngn	tnytnwsncn	ngngntgntg	carlytngay	cnccntgyt	yytnccnngn	960
aargtnnacny	tnytytgga	rgcncngay	carwsncnt	gyccarcnyt	ngntncncnc	1020
gtncncncara	araaygcnac	ngwtnaaygar	ccncargayt	tyarcyntgt	ngcngncngt	1080
cncaaytynt	gytytncargt	nwsnactngt	garaargtnc	tyartncarg	tytywstngt	1140
gcngaywsny	tngtngccnt	yaargaygay	atgytyntng	tngaratgaa	racngngnytn	1200
aayaaytynt	sngtntgygc	nytnrgarcn	wsgngntgya	cnccnyntnc	nwsnatggcn	1260
wsnacnmngn	cgncnmngnt	gngaygar	tytyntncarg	aytymngnw	ncaycartyg	1320
atgcarytyt	ggaygayga	yaayatyggg	wstyntcgg	cntgyccnat	ggayaartay	1380
atthcayngm	ntgggtynt	ngntngytn	gcntytynt	tnytnngcnc	ngcnyntty	1440
tytytytynt	nytnnaarac	rgaymgngnt	aragcngcm	gngnwsnmw	ncangcnyty	1500
ytntyntcay	sgncngaytg	ngcngntayt	garngnytn	tgngngcnyt	ngcnwngcn	1560
ytwnscncara	tgccnytnmg	tgngntngnt	gaytyntgw	anngnmngna	rytnwngcn	1620
cayyngcny	tngtntggtt	ycaycaycar	mgnmngmna	thytncarga	rgngngntgn	1680
gcnathytny	nttytnwsnc	ngcngcngtn	gcncartgyt	arcartgyty	ncarytncar	1740
acngntncnc	cgncncncna	ygagytynt	gcngcngtyt	tnwstngygt	nytnccngay	1800
tytytncarg	gngcngcncac	ngngmntyty	gtngcngtyt	aytycaygnt	nytnvtnca	1860

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cncgawwsng tncncwsnce nttymgngtn gncncnynt tywsnytnce nacncarytn 1920
cncgnttyy tngaygcnyt ncarggnggn tgywsnacnw sngcngngnm nccngcngay 1980
mgngtngarm gngtnacnca rgcnymngn wngcnytnng aywsntgyac nwsnwnswen 2040
gargncncng gntgytgyga rgartggggy ytnngncnt gyaacnacyt ngar 2094

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<210> 7
<211> 16
<212> PRT
<213> Artificial Sequence

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<220>
<223> Peptide linker

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<400> 7
Gly Gly Ser Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

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<210> 8
<211> 692
<212> PRT
<213> Human

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<400> 8
Met Pro Val Pro Trp Phe Leu Leu Ser Leu Ala Leu Gly Arg Ser Pro
1 5 10 15
Val Val Leu Ser Ser Leu Glu Arg Leu Val Gly Pro Gln Asp Ala Thr His
20 25 30
Cys Ser Pro Gly Leu Ser Cys Arg Leu Trp Asp Ser Asp Ile Leu Cys
35 40 45
Leu Pro Gly Asp Ile Val Pro Ala Pro Gly Pro Val Leu Ala Pro Thr
50 55 60
His Leu Gln Thr Glu Leu Val Leu Arg Cys Gln Lys Glu Thr Asp Cys
65 70 75 80
Asp Leu Cys Leu Arg Val Ala Val His Leu Ala Val His Gly His Trp
85 90 95
Glu Glu Pro Glu Asp Glu Glu Lys Phe Gly Gly Ala Ala Asp Ser Gly
100 105 110
Val Glu Glu Pro Arg Asn Ala Ser Leu Gln Ala Gln Val Val Leu Ser
115 120 125
Phe Gln Ala Tyr Pro Thr Ala Arg Cys Val Leu Leu Glu Val Gln Val
130 135 140
Pro Ala Ala Leu Val Gln Phe Gly Gln Ser Val Gly Ser Val Val Tyr
145 150 155 160
Asp Cys Phe Glu Ala Ala Leu Gly Ser Glu Val Arg Ile Trp Ser Tyr
165 170 175
Thr Gln Pro Arg Tyr Glu Lys Glu Leu Asn His Thr Gln Gln Leu Pro
180 185 190
Ala Leu Pro Trp Leu Asn Val Ser Ala Asp Gly Asp Asn Val His Leu
195 200 205
Val Leu Asn Val Ser Glu Glu Gln His Phe Gly Leu Ser Leu Tyr Trp
210 215 220
Asn Gln Val Gln Gly Pro Pro Lys Pro Arg Trp His Lys Asn Leu Thr
225 230 235 240
Gly Pro Gln Ile Ile Thr Leu Asn His Thr Asp Leu Val Pro Cys Leu
245 250 255
Cys Ile Gln Val Trp Pro Leu Glu Pro Asp Ser Val Arg Thr Asn Ile
260 265 270
Cys Pro Phe Arg Glu Asp Pro Arg Ala His Gln Asn Leu Trp Gln Ala
275 280 285
Ala Arg Leu Arg Leu Leu Thr Leu Gln Ser Trp Leu Leu Asp Ala Pro
290 295 300

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Cys Ser Leu Pro Ala Glu Ala Ala Leu Cys Trp Arg Ala Pro Gly Gly
 305 310 315 320
 Asp Pro Cys Gln Pro Leu Val Pro Pro Leu Ser Trp Glu Asn Val Thr
 325 330 335
 Val Asp Lys Val Leu Glu Phe Pro Leu Leu Lys Gly His Pro Asn Leu
 340 345 350
 Cys Val Gln Val Asn Ser Ser Glu Lys Leu Gln Leu Gln Glu Cys Leu
 355 360 365
 Trp Ala Asp Ser Leu Gly Pro Leu Lys Asp Asp Val Leu Leu Leu Glu
 370 375 380
 Thr Arg Gly Pro Gln Asp Asn Arg Ser Leu Cys Ala Leu Glu Pro Ser
 385 390 395 400
 Gly Cys Thr Ser Leu Pro Ser Lys Ala Ser Thr Arg Ala Ala Arg Leu
 405 410 415
 Gly Glu Tyr Leu Leu Gln Asp Leu Gln Ser Gly Gln Cys Leu Gln Leu
 420 425 430
 Trp Asp Asp Asp Leu Gly Ala Leu Trp Ala Cys Pro Met Asp Lys Tyr
 435 440 445 450
 Ile His Lys Arg Trp Ala Leu Val Trp Leu Ala Cys Leu Leu Phe Ala
 455 460 465
 Ala Ala Leu Ser Leu Ile Leu Leu Leu Lys Lys Asp His Ala Lys Ala
 470 475 480
 Ala Ala Arg Gly Arg Ala Ala Leu Leu Leu Tyr Ser Ala Asp Asp Ser
 485 490 495
 Gly Phe Glu Arg Leu Val Gly Ala Leu Ala Ser Ala Leu Cys Gln Leu
 500 505 510
 Pro Leu Arg Val Ala Val Asp Leu Trp Ser Arg Arg Glu Leu Ser Ala
 515 520 525
 Gln Gly Pro Val Ala Trp Phe His Ala Gln Arg Arg Gln Thr Leu Gln
 530 535 540
 Glu Gly Gly Val Val Val Leu Leu Phe Ser Pro Gly Ala Val Ala Leu
 545 550 555 560
 Cys Ser Glu Trp Leu Gln Asp Gly Val Ser Gly Pro Gly Ala His Gly
 565 570 575
 Pro His Asp Ala Phe Arg Ala Ser Leu Ser Cys Val Leu Pro Asp Phe
 580 585 590
 Leu Gln Gly Arg Ala Pro Gly Ser Tyr Val Gly Ala Cys Phe Asp Arg
 595 600 605
 Leu Leu His Pro Asp Ala Val Pro Ala Leu Phe Arg Thr Val Pro Val
 610 615 620
 Phe Thr Leu Pro Ser Gln Leu Pro Asp Phe Leu Gly Ala Leu Gln Gln
 625 630 635 640
 Pro Arg Ala Pro Arg Ser Gly Arg Leu Gln Glu Arg Ala Glu Gln Val
 645 650 655
 Ser Arg Ala Leu Gln Pro Ala Leu Asp Ser Tyr Phe His Pro Pro Gly
 660 665 670
 Thr Pro Ala Pro Gly Arg Gly Val Gly Pro Gly Ala Gly Pro Gly Ala
 675 680 685
 Asp Gly Thr
 690

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